

ABSTRACT OF DISCLOSURE

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The present invention relates to a method for creating and recording transport time reference information used to transmit data transport packets recorded as transport stream format in a disk recording medium such as the high-density DVD to a connected digital television, and a method for transmitting data transport packets on time indicated by the recorded transport time reference information while reproducing recorded data stream. This method records both of transport time reference information for an arbitrary transport packet in a recording unit such as a pack in the header of the pack or the arbitrary packet and location information for the arbitrary packet while grouping several transport packets into a pack when recording a program in the form of a transport packet, and, when reproducing a recorded program, detects the transport time reference based on the information recorded in the header of a pack or the arbitrary transport packet, and then transmits the arbitrary transport packet at the detected time reference. The other method specifies a fixed-positioned, for example the first transport packet to include time information for transport time reference, and records the transport time reference information in the header of the fixed-positioned transport packet or a pack, and, when reproducing recorded transport packets, transmits the fixed-positioned transport packet at time specified by the time information for that packet. Therefore, despite not recording transport time reference information for all transport packets, this invention can deliver digital data recorded in a disk, in which the positions of infra-coded pictures are fixed to provide quick trick play, to a digital TV without deviation of transmitting-time interval between transport packets.